WHAT IS CLAIMED IS:

1. In a power plant utilizing a process to remove components harmful to the atmosphere from a stream of flue gas, wherein said process includes the injection of a vaporized aqueous mixture in the stream of flue gas, the improvement comprising:

a vaporization chamber pre-heated to a vaporization temperature in order to vaporize said aqueous mixture prior to the injection thereof into said stream of flue gas, said vaporization chamber being pre-heated by an independent heat source.

2. The power plant according to claim 1 wherein said independent heat source is a band heater.

3. The power plant according to claim 1 wherein said independent heat source is a blanket heater

4. The power plant according to claim 1 wherein said independent heat source is an electric heat tracing apparatus.

5. The power plant according to claim 1 wherein said independent heat source is an steam heat tracing apparatus.

6. The power plant according to claim 1 wherein said aqueous mixture comprises ammonia in the range of less than 29% by volume and the balance being water.

7. In a power plant utilizing a process to remove components harmful to the atmosphere from a stream of flue gas, wherein said process includes the injection of a vaporized aqueous mixture in the stream of flue gas, the improvement comprising:

a vaporization chamber pre-heated to a vaporization temperature in order to vaporize said aqueous mixture prior to the injection thereof into said stream of flue gas, said vaporization chamber being pressurized from an air assembly and being pre-heated by an independent heat source.

8. In the power plant of claim 7, said air assembly comprising a diffusing air fan in communication with an electric heater.

9. A process to remove components harmful to the atmosphere from a stream of flue gas comprising:

a. pre-heating a vaporization chamber via an independent heating source to a vaporization temperature;

b. introducing an aqueous mixture into said vaporization chamber thereby causing the aqueous mixture to vaporize;

c. injecting said vaporized aqueous mixture into a stream of flue gas creating an aqueous mixture/flue gas mixture; and

d. passing said aqueous mixture/flue gas mixture over a catalyst.

10. The process of claim 9 further comprises maintaining said pre-heated vaporization chamber at said vaporization temperature via a convection process.

11. The process of claim 9 wherein said aqueous mixture comprises ammonia in the range of less than 29% by volume and the balance being water.